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 aagattacat gcacctgaac gaggacctga gtccttgac cgggcgac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 934  
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 <212> DNA  
 <213> Homo sapiens

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 cgagtccgag gacggagccc cgggcgcat ggatagagca ggagggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
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 agatcaccca gcgaagtgg gaggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 935  
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 <212> DNA  
 <213> Homo sapiens

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 cgagtccgag gacggagacc cgggcgcat ggatagagca ggagggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat gcacctgaac gaggacctga gtccttgac cgggcgac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgagac acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 936  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 936  
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 cgagtccgag gacggagccc cgggcgcat ggatagagca ggagggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat gcacctgaac gaggacctga gtccttgac cgggcgac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgagac acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 937  
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 <212> DNA  
 <213> Homo sapiens

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 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
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 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagcgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcggaccc ccaaagaca cactgaccc accaccccg ctctgacct gaggccaccc 600  
 tgaggtgctg ggcctgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca ccctgagatg gg 822

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 <212> DNA  
 <213> Homo sapiens

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 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcggaccc ccaaagaca cactgaccc accaccccg ctctgacct gaggccaccc 600  
 tgaggtgctg ggcctgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatggaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca ccctgagatg gg 822

<210> 939  
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 <212> DNA  
 <213> Homo sapiens

<400> 939  
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 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540

gcgcgg

546

<210> 940  
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 <212> DNA  
 <213> Homo sapiens

<400> 940  
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 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctcc cggggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
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 tgaggtgtg ggcctgggc ttctacctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtgtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggtgtg aagccctca cctgagatg gg 822

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 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 941  
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 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
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 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 942  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 942  
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 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctcc cggggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 943  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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 gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc ccggcccgcc 120  
 cgcgggggagc ccgcttcat cgcagtgggc tacgtggagc acaccagtt cgtgaggttc 180  
 gcagcgcagc ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttgccag 360  
 acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaagatta catgcacctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctacgatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
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 catgaggcca cctgagggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
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 tcttccagc ccaccatccc catcgtgggc attgtgtgct gcctggctgt cctagcagtt 960  
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<210> 944  
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 <212> DNA  
 <213> Homo sapiens

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 gtgggctacg tggacgacac ccagttcgtg aggttcgaca gcgacccgc gactccgagg 180  
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 cagatctcca agaccaacac acagacttac cgagagaacc tgcggatcgc gctccgtac 300  
 tacaaccaga gcgaggccgg gtctcact tggcagacga tgtatggctg cgacgtgggg 360  
 ccggacgggc gcctcctcg cgggcataac cagtacgcct acgacggcaa agattacatc 420  
 gcctgaacg agggactgag ctctggacc gcggcgga cccgggtca gatccaccag 480  
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 gtggagtggc tccgagaca cctggagaac gggaaggaga cgtgcagcg cgcggacccc 600  
 ccaaagacac acgtgacca ccaaccgctc tctgacctg aggccaccct gaggtgctgg 660  
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 actcaggaca ctgagcttgt ggagaccaga ccagcaggag atagaacctt ccagaagtgg 780  
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 gggctgccga agccctcac cctgagatgg gagcatctt ccagtccac catcccatc 900  
 gtgggcattg ttgctggcct ggctgtccta cgattgtgg tcacggagc tgtggtcgt 960  
 actgtgatgt gtaggaggaa gagctcaggt gga 993

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 <212> DNA  
 <213> Homo sapiens

<400> 945  
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 cgagtccgag gacggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180



accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
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 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 946  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 946  
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 cgagtcggag gacggagccc cgggcgcat ggatagagca ggaggggccg gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ttgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
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 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 947  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 947  
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 cgagtcggag gatggcgccc cgggcgcat ggatagagca ggaggggccg gattattggg 180  
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 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 948  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 948  
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 cgagtcggag gacggagccc cgggcgcat ggatagagca ggaggggccg gattattggg 180  
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gcgcgg

546

<210> 949  
 <211> 1012  
 <212> DNA  
 <213> Homo sapiens

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 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
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 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg cggggtctca cacttgagag 360  
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 gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
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 agagcctacc tggagggcct gtgcgtggag tggctccga gacacctgga gaacgggaag 600  
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 tcttccagc ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtgtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc ag 1012

<210> 950  
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 <212> DNA  
 <213> Homo sapiens

<400> 950  
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 cgagtcgag gacggagccc cggcgccat ggtatagaca ggagggggcg gagtattggg 180  
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 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 951  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 951  
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 gagacctggg cgggtccca ctccatgagg tattttaca cggccatgtc cggccccggc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggcaggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga cacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg cggggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccggc gggcgctcc tccgcgggca tgaccagtcc 420  
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gacaccgagg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
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 gagacgtcgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca ccctgagggt ctgggcccgt ggttcttacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttctg gctggctgt cctagcagtt 960  
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 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 952  
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 cgagtccgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 953  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 953  
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 cgagtccgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagaggac ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
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 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 954  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 cgagtccgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctctcc gcgggcatga ccagttcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 955  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 955  
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 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 956  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 956  
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 gtttcattgc agtgggtac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 957  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 957  
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 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggtataa ccagttcgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 958

<211> 546  
 <212> DNA  
 <213> Homo sapiens

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 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 959  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 959  
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 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 960  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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 gagacctggg ccggctccca ctccatgagg tattctaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc cccgcttcac cgagtgaggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaagggc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct ggggcgggac gggcgctcc tccgcgggca taaccagtta 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
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 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacttggg gaacgggaag 600  
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 tcttccagt ccaccatccc catcgtggc attgtgtgtg gcctggctgt cctagcagtt 960  
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<210> 961  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 961  
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 cgagtccgag aggggagccg cgggcccgt ggggtggagca ggaggggccc gaggattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac acccgggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 962  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 962  
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 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccgc 120  
 cgcggggagc ccgcttcat cgcagtggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
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 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
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 catgaggcca cctgagggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720  
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 tcttccagc ccaccatccc catcgtggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgctactgtg atgttagga ggaagagctc aggtgga 1017

<210> 963  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
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 tcttccagt ccaccatccc catctgggc attgttgctg gctggctgt cctagcagtt 960  
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<210> 964  
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 <213> Homo sapiens

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 gcgcgg 546

<210> 965  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 gcgcgg 546

<210> 966  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 966  
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 cgcggggagc ccgcttcat cgagtgggc tacgtggacg acacgcagtt cgtgaggtc 180  
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<210> 967  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 967  
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 cgagtccgag aggggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
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 gcgcgg 546

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 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 968  
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 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacctggg gccggacggg cgcctctcc gcgggcataa ccagttagcc tacgacggca 360  
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 agatcaccca gcgcaagtgg gaggggccc gtgtggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 969  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 969  
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 gcgacctggg gccggacggg cgcctctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540



gcgcgg

546

&lt;210&gt; 970

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 970

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 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
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&lt;210&gt; 971

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 971

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&lt;210&gt; 972

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 972

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<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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&lt;210&gt; 979

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 979

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&lt;210&gt; 980

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 980

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&lt;210&gt; 981

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 981

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&lt;400&gt; 987

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cgcggggagc cccgttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc	240
gacagcgacg ccgaggtcc gaggatggcg cccggggcg catggataga gcaggagggg	300
ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgagac ttaccgagag	360
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&lt;210&gt; 988

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 988

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tgcagcatga ggggctgcca aagccctca cctgagatg gg	822

&lt;210&gt; 989

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 989

gtctccactc catgaggtat ttctacaccg ccatgtccc gcccggccgc ggggagcccc	60
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cgagtccgag gatggcgccc cgggcgcat ggatagagca ggaggggccc gagtattggg	180
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gcgcgg	546

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 <212> DNA  
 <213> Homo sapiens

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 cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gâgtattggg 180  
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 gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagtacgcc tacgacggca 360  
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 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagcggaga gcctacctgg 480  
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 gcgcgg 546

<210> 991  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
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 catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
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 ggagatagaa ctttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccaaagcccc tcacctgag atgggagcca 900  
 tcttccaat ccaccgtcc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
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<210> 992  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 992  
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 cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gâgtattggg 180  
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 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
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 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546



<210> 993  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 993  
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 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
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 gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
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 agatcaccca gcgaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 994  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 994  
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 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
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 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
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 agatcaccca gcgaagtgg gagggcgccc gtgaggcgga gcaggacaga gcctacctgg 480  
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 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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 ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300  
 aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
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 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgggcg 480  
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 agagcttacc tggaggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
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 catgaggcca cctgaggtg ctggccctg gcttctacc ctgcggagat cacactgacc 720  
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 tcttccagt ccacctccc catcgtggc attgtgtg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgtactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 996  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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 cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
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 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgagg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
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 catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cactctgacc 720  
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 tcttccagat ccaccatccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
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<210> 997  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 997  
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 cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
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 ccggagtatt gggacgagga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
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 gacaccgagg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcg 619

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 <212> DNA  
 <213> Homo sapiens

<400> 998  
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 gcgacctggg gcccgacggg gcctcctcc gcggcatga ccagtccgc tacgacggca 360  
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 agatcaccca gcgaagtgt gaggcggccc gtgcggcgga gcagctgaga gcctacctgg 480  
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 gcgagg 546

<210> 999  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 999  
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 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtatggct 300  
 gcgacctggg gcccgacggg cgctcctcc ggggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 1000  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 1000  
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 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
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 gcgacctggg gcccgacggg cgctcctcc ggggcatga ccagtcgcc tacgacggca 360  
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 gcgcgg 546

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 <212> DNA  
 <213> Homo sapiens

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 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct gggccggac gggcgccctc tccgcgggca taaccagta 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcgcg 480  
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 tcttccagt ccaccatccc catcgtggg attgttctg gcctggctg cctagcagtt 960  
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<210> 1002  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 1002  
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 cgcgggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt cgtgagggtc 180  
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 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
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 agaacctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
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 tcttccagc ccaccgtccc catcgtgggc attgttctg gctggctgt cctagcagtt 960  
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<210> 1003  
 <211> 541  
 <212> DNA  
 <213> Homo sapiens

<400> 1003  
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 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360  
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 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
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 g 541

<210> 1004  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 1004  
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&lt;210&gt; 1005

&lt;211&gt; 1020

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1005

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&lt;210&gt; 1006

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1006

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&lt;210&gt; 1007

&lt;211&gt; 1017

<212> DNA  
<213> Homo sapiens

<400> 1007

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<210> 1008  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1008

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<210> 1009  
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<212> DNA  
<213> Homo sapiens

<400> 1009

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&lt;213&gt; Homo sapiens

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 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
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 gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg gcgacgtgtg gtgtgctt ctggagaaga gcagagatac acatgcatg 780  
 tacagcatga ggggtgccc aagccctca ccctgagatg gg 822

&lt;210&gt; 1011

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1011

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&lt;210&gt; 1012

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1012

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## SEQUENCE LISTING C

&lt;110&gt; CANON KABUSHIKI KAISHA

&lt;120&gt; Probe set and method for identifying HLA allele

&lt;130&gt; G10003828C

&lt;150&gt; JP2003-430556

&lt;151&gt; 2003-12-25

&lt;160&gt; 345

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

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&lt;213&gt; human leukocyte

&lt;400&gt; 1

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&lt;210&gt; 2

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 2

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<210> 4  
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 <213> human leukocyte

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gcgcgg 546

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<210> 5  
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 <212> DNA  
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<400> 5

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gcgcgg 546

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<210> 6  
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 <212> DNA  
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gcgcgg 546

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<210> 7  
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 <212> DNA  
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<210> 8  
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 <212> DNA  
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<210> 9  
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 <212> DNA  
 <213> human leukocyte

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 <213> human leukocyte

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 <211> 546  
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 <213> human leukocyte

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<210> 17  
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&lt;400&gt; 17

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&lt;210&gt; 18

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 18

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&lt;210&gt; 19

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 19

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<212> DNA  
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gcgcgg 546

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<212> DNA  
<213> human leukocyte

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<212> DNA  
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&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 28

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&lt;210&gt; 29

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 29

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gcgcggg                                     546

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&lt;210&gt; 30

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 30

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<212> DNA  
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<400> 37

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<210> 38  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

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<210> 39  
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 <212> DNA  
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<210> 40  
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 <212> DNA  
 <213> human leukocyte

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<210> 41  
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 <212> DNA  
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<210> 44  
<211> 546  
<212> DNA  
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<211> 546  
<212> DNA  
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<210> 46  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 46



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 <212> DNA  
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gcgcgg

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gcgcgg

546

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&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 58

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&lt;210&gt; 59

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 59

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&lt;210&gt; 60

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 60

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<211> 546  
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<212> DNA  
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<212> DNA  
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<212> DNA  
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<400> 77

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&lt;213&gt; human leukocyte

&lt;400&gt; 85

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&lt;210&gt; 86

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 86

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&lt;210&gt; 87

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 87

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&lt;210&gt; 88

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 88

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&lt;213&gt; human leukocyte

&lt;400&gt; 91

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&lt;210&gt; 92

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 92

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&lt;210&gt; 93

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 93

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gcgagg 546

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&lt;210&gt; 105

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 105

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&lt;210&gt; 106

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 106

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<211> 546

<212> DNA

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<212> DNA

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<400> 127  
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<210> 128  
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17

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tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggcg	240
ggcccatgac cctgcagcgc cgagtc	267

<210> 34

<211> 264

<212> DNA

<213> Homo sapiens

<400> 34

agaattacct ttccagga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
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tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca	180
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggag	240
aggccgtgac cctgcagcgc cgag	264

<210> 35

<211> 257

<212> DNA

<213> Homo sapiens

<400> 35

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggag	240
aggccgtgac cctgcag	257

<210> 36

<211> 249

<212> DNA

<213> Homo sapiens

<400> 36

ctttccagg gacggcagga atgctacgcg tttaatggga cacagcgctt cctggagaga	60
tacatctaca accgggagga gttcgtgcgc ttcacagcg acgtggggga gttccgggcg	120
gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga catcctggag	180
gaggagcggg cagtgccgga cagggtatgc agacacaact acgagctgga cgaggccgtg	240
accctgcag	249

<210> 37

<211> 264

<212> DNA

<213> Homo sapiens

<400> 37

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tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggaca	180
tcctggagga ggagcgggca gtgccggaca gggatgtgcag acacaactac gagctggag	240
aggccgtgac cctgcagcgc cgag	264

<210> 38  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 38  
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 tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
 tcctggagga ggagcgggca gtgccggaca gggatatgag acacaactac gagctggacg 240  
 aggccgtgac cctgcagcgc cgag 264

<210> 39  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 39  
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 tacatctaca accggcagga gtacgcgcgc ttcgacagcg acgtgggaga gttccgggcg 120  
 gtgacggagc tggggcggcc tgctgcggag tactggaaca gccagaagga cctcctggag 180  
 gagaggcggg cagtgccgga caggatgtgc agacacaact acgagctgga cgaggccgtg 240  
 accctgcag 249

<210> 40  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 40  
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 tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc 180  
 tcctggagga gaggcgggca gtgccggaca ggaatgtgag acacaactac gagctggacg 240  
 aggccgtgac cctgcag 257

<210> 41  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 41  
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 tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
 tcctggagga ggagcgggca gtgccggaca ggaatgtgag acacaactac gagctggacg 240  
 aggccgtgac cctgcag 257

<210> 42  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 42  
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tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc 180  
tcctggagga gaagcgggca gtgccggaca gggatatgag acacaactac gagctggacg 240  
aggccgtgac cctgcag 257

<210> 43  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 43  
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tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc 180  
tcctggagga gagcggggca gtgccggaca ggatgtgcag acacaactac gagctggtcg 240  
ggcccatgac cctgcagcgc cgag 264

<210> 44  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 44  
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tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

<210> 45  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 45  
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tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggaca 180  
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

<210> 46  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 46  
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tacatctaca accgggagga gttcgtgcgc ttcacagcg acgtggggga gttccgggcg 120  
gtgacggagc tggggcgccc tgatgaggag tactggaaca gccagaagga catcctggag 180  
gagaagcggg cagtgccgga caggatgtgc agacacaact acgagctggt cgggcccattg 240  
accctgcag 249

<210> 47  
<211> 264  
<212> DNA

<213> Homo sapiens

<400> 47

agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca	180
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

<210> 48

<211> 264

<212> DNA

<213> Homo sapiens

<400> 48

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tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

<210> 49

<211> 263

<212> DNA

<213> Homo sapiens

<400> 49

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tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgt cga	263

<210> 50

<211> 264

<212> DNA

<213> Homo sapiens

<400> 50

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca	180
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

<210> 51

<211> 264

<212> DNA

<213> Homo sapiens

<400> 51

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tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca	180
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

<210> 52  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 52  
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tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cgag 264

<210> 53  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 53  
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tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cgag 264

<210> 54  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 54  
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tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggacc 180  
tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

<210> 55  
<211> 256  
<212> DNA  
<213> Homo sapiens

<400> 55  
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tacatctaca accgggagga gtacgcgcgc ttcgacagcg acgtgggaga gttccgggcg 120  
gtgacggagc tggggcggcc tgctgcggag tactggaaca gccagaagga catcctggag 180  
gagaagcggg cagtgcggga cagagtatgc agacacaact acgagctgga cgaggccgtg 240  
accctgcagc gccgag 256

<210> 56  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 56  
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tacatctaca accgggagga gtacgcgcgc ttcgacagcg acgtggggga gttccgggcg 120

gtgacggagc tggggcggcc tgctgcggag tactggaaca gccagaagga catcctggag 180  
gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga cgaggccgtg 240  
accctgcagc gccga 255

<210> 57  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 57  
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tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac gtggggggagt 120  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

<210> 58  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 58  
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tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac gtggggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggacc 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggtcg 240  
ggcccatgac cctgcagcgc cgag 264

<210> 59  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 59  
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tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc 180  
tcctggagga ggagcgggca gtgccggaca gggatatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

<210> 60  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 60  
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tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca 180  
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
aggccgtgac cctgcag 257

<210> 61  
<211> 264  
<212> DNA

<213> Homo sapiens

<400> 61

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tggagagata catctacaac cgggaggagt tcgcgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca ttgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

<210> 62

<211> 264

<212> DNA

<213> Homo sapiens

<400> 62

agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
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tccgggcggt gacggagctg gggcggcctg atgagggtga ctggaacagc cagaaggaca	180
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
ggcccatgac cctgcagcgc cgag	264

<210> 63

<211> 257

<212> DNA

<213> Homo sapiens

<400> 63

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tggagagata catctacaac cgggaggagt tcgcgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca	180
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
ggcccatgac cctgcag	257

<210> 64

<211> 257

<212> DNA

<213> Homo sapiens

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tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca ttgccggaca ggatgtgcag acacaactac gagctggtcg	240
ggcccatgac cctgcag	257

<210> 65

<211> 257

<212> DNA

<213> Homo sapiens

<400> 65

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tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggaca	180
tcctggagga gaagcgggca gtgccggaca gggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcag	257



<210> 66  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 66  
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tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca 180  
tcttgaggga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

<210> 67  
<211> 256  
<212> DNA  
<213> Homo sapiens

<400> 67  
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tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga gttccgggcg 120  
gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga catcctggag 180  
gaggagcggg cagtgccgga cagggtatgc agacacaact acgagctgga cgaggccgtg 240  
accctgcagc gccgag 256

<210> 68  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 68  
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tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga gttccgggcg 120  
gtgacggagc tggggcggcc tgaggcggag tactggaaca gccagaagga catcctggag 180  
gagaagcggg cagtgccgga caggatgtgc agacacaact acgagctgga cgaggccgtg 240  
accctgcag 249

<210> 69  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 69  
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tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
tcttgaggga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cga 263

<210> 70  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 70  
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tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgaggagta ctggaacagc cagaaggaca 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggtcg 240  
ggcccatgac cctgcagcgc cga 263

<210> 71  
<211> 261  
<212> DNA  
<213> Homo sapiens

<400> 71  
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gagagataca tctacaaccg ggaggagtgc gtgcgcttcg acagcgacgt gggggagtgc 120  
cgggcgggtga cggagctggg ggcgcctgat gaggagtact ggaacagcca gaaggacttc 180  
ctggaggagg agcggggcagt gccggacagg atgtgcagac acaactacga gctgggcggg 240  
cccatgacct tgcagcgccg a 261

<210> 72  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 72  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac gtgggggagt 120  
tccgggcgggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc 180  
tcctggagga ggagcgggca gtgccggaca gggatatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

<210> 73  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 73  
gtgcaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt cctggagaga 60  
tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga gttccgggcg 120  
gtgacggagc tggggcgccc tgatgaggag tactggaaca gccagaagga cctcctggag 180  
gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga cgaggccgtg 240  
accctgcag 249

<210> 74  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 74  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt 120  
tccgggcgggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggaca 180  
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<400> 75

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tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca	180
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
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<212> DNA

<213> Homo sapiens

<400> 76

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cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacatc	180
ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga gctgggcggg	240
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<211> 255

<212> DNA

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cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacatc	180
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cccatgacc tgag	255

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<211> 255

<212> DNA

<213> Homo sapiens

<400> 78

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cgggcggtga cggagctggg gcggcctgat gaggactact ggaacagcca gaaggacctc	180
ctggaggaga agcgggcagt gccggacagg gtatgcagac acaactacga gctggacgag	240
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tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca	180
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tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc 180  
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gtgacggagc tggggcgccc tgctcggag tactggaaca gccagaagga cctcctggag 180  
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<212> DNA  
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gtgacggagc tggggcgccc tgatgaggac tactggaaca gccagaagga cctcctggag 180  
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tcggggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
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tcctgtagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc 260

&lt;210&gt; 90

&lt;211&gt; 257

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 90

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ggcccatgac cctgcag 257

&lt;210&gt; 91

&lt;211&gt; 255

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 91

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gccgtgacct tgcag 255

&lt;210&gt; 92

&lt;211&gt; 255

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 92

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ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga gctggacgag 240  
gccgtgacct tgcag 255

&lt;210&gt; 93

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 93

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aggccgtgac cctgcagcgc cgag 264

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ggcccatgac cctgcagcgc cgag 264

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aggccgtgac cctgcagcgc cgag 264

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<213> Homo sapiens

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aggccgtgac cctgcagcgc cga

263

&lt;210&gt; 113

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

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tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcac cgag 264

&lt;210&gt; 114

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 114

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cctggaggag gagcgggcag tgccggacag gatgtgcaga cacaactac agctgggcgg 240  
gcccattgacc ctgcagccc ga 262

&lt;210&gt; 115

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 115

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768

&lt;210&gt; 181

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 ggctgcgtt cagttggtgc ttccagacac caagggcct tgtga 765

<210> 185  
 <211> 258  
 <212> DNA  
 <213> Homo sapiens

<400> 185  
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 ccctctggcc agtacaccca tgaatttgat ggagatgagc agttctacgt ggacctgggg 120  
 aggaaggaga ctgtctgggt tttgcctgtt ctacagacaat tttagattga cccgcaattt 180  
 gcactgacaa acatcgctgt cctaaaacat aacttgaaca gtctgattaa acgtccaac 240  
 tctaccgctg ctaccaat 258

<210> 186  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 186  
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 gatgagcagt tctacgtgga cctggggagg aaggagactg tctggtgttt gcctgttctc 120  
 agacaattta gatttgaccg gcaatttgca ctgacaaaca tcgctgtcct aaaacataac 180  
 ttgaacagtc tgattaaacg ctccaactct accgtgcta cc 222

<210> 187  
 <211> 765  
 <212> DNA  
 <213> Homo sapiens

<400> 187  
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 gacctgggga ggaaggagac tgtctgggtg ttgcctgttc tcagacaatt tagatttgac 240  
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 cccgtgacac tgggtcagcc caacatcctc atctgtcttg tggacaacat ctttctctct 420  
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 aaacactggg agcctgagat tccagcccct atgtcagagc tcacagagac tgttgtctgc 660  
 gccttgggat tgtctgtggg cctcgtgggc atttgtgtgg gcactgtctt catcatccga 720  
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<210> 188  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 188  
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 tctggtgttt gcctgttctc agacaattta gatttgacct gcaatttgca ctgacaaaca 180  
 tcgtgtcct aaaacataac ttgaacagtc tgattaaacg ctccaactct accgctgcta 240  
 ccaatg 246

<210> 189  
 <211> 765  
 <212> DNA  
 <213> Homo sapiens

<400> 189  
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 tcttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca gttctacgtg 180  
 gacctggggga ggaaggagac tgtctggtgt ttgcctgttc tcagacaatt tagatttgac 240  
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 cccgtgacac tgggtcagcc caacatcctc atctgtcttg tggacaacat ctttctcct 420  
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 agcttctct ccaagagtga tcattccttc ttcaagatca gttacctcac cctcctccct 540  
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 aaacactggg agcctgagat tccagcccct atgtcagagc tcacagagac tgttgtctgc 660  
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<210> 190  
 <211> 765  
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 tcttacggtc cctctggcca gttacccat gaatttgatg gagacgagca gttctacgtg 180  
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 cccgtgacgc tgggtcagcc caacaccctc atctgtcttg tggacaacat ctttctcct 420  
 gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaagggtg ttctgagacc 480  
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 gccttgggat tgtctgtggg cctcgtgggc atttgtgtgg gcactgtctt catcatccga 720  
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 <212> DNA  
 <213> Homo sapiens

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 agacaattta gatttgacct gcaatttgca ctgacaaaca tcgccgtgac aaaacacaac 180  
 ttgaacatcc tgattaaacg ctccaactct accgtgcta ccaatga 227

<210> 192  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 192  
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 gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agggggccccg 180  
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 caacctgctg atctgctcgg tgacagattt ctatccaagc cagatcaaag tccggtgggt 360  
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 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac 480  
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<210> 193  
 <211> 244  
 <212> DNA  
 <213> Homo sapiens

<400> 193  
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 gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agggggccccg 180  
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<210> 194  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 194  
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 gcagggggcgg cctagcgccg agtactggaa cagccagaag gaagtcctgg agggggccccg 180  
 ggcgtcgggtg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg ggatcctgca 240  
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 caacctgctg atctgctcgg tgacagattt ctatccaagc cactcaaag tccggtgggt 360  
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 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac 480  
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<211> 245  
<212> DNA  
<213> Homo sapiens

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gcagggggcgg cctagcgccg agtactggaa cagccagaag gaagtcctgg agggggcccc 180  
ggcgtcgggtg gacagagtgt gcagacacaa ctacgagggtg gcgtaccgcg ggatcctgca 240  
gagga 245

<210> 196  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 196  
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taaccgagag gagtacgtgc gcttcgacag cgacgtgggg gtgtatcggg cggtgacgcc 120  
gcagggggcgg cctgacgccc agtactggaa cagccagaag gaagtcctgg agggggcccc 180  
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ctggaccttc cagatcctgg tgatgtgga aatgactccc cagcgtggag atgtctacac 480  
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<210> 197  
<211> 148  
<212> DNA  
<213> Homo sapiens

<400> 197  
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cgacagcgac gtgggggtgt atcgggcggt gacgccgag gggcggcctg atgccgagta 120  
ctggaacagc cagaaggaag tctggag 148

<210> 198  
<211> 212  
<212> DNA  
<213> Homo sapiens

<400> 198  
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taaccgagaa gagtacgtgc gcttcgacag cgacgtgggg gtgtaccggg cggtgacgcc 120  
gcagggggcgg cctagcgccg agtactggaa cagccagaag gacatcctgg aggaggaccg 180  
ggcgtcgggtg gacagggtgt gcagacacaa ct 212

<210> 199  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 199  
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ggcggcggtg gacagggtgt gcagacacaa ctaccagttg gagtccgca cgacctgca	240
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ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg	529

<210> 200  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

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gctggggctg cctgccgccc agtactggaa cagccagaag gacatcctgg agaggaaacg	180
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ctggaccttc cagatcctgg tgatgtgga aatgactccc cagcgtggag acgtctacac	480
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<210> 201  
 <211> 449  
 <212> DNA  
 <213> Homo sapiens

<400> 201	
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gctggggctg cctgacgccc agtactggaa cagccagaag gacatcctgg agaggaaacg	180
ggcggcggtg gacagggtgt gcagacacaa ctaccagttg gagtccgca cgacctgca	240
gcggcgacct catccaggac agaggccctc aaccaccaca acctgctggt ctgctcggtg	300
acagatttct atccagccca gatcaaagtc cgggtggttc ggaatggcca ggaggagaca	360
gctggcggtg tgtccacccc cttattagg aatggtgact ggaccttcca gatcctggtg	420
atgctggaaa tgactcccca gcgtggaga	449

<210> 202  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 202	
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taaccgagag gactacgcac gcttcgacag cgacgtggag gtgtaccggg cggtagcgc	120
gctggggccc cctgacgccc agtactggaa cagccagaag gaagtctgg agaggacccc	180
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gcggcgagtg gagcccacag tgacctctc cccatccagg acagaggccc tcaaccacca	300
caacctgctg gctgtctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt	360
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ctggaccttc cagatcctgg tgatgtgga aatgactccc cagcatggag acgtctacac	480
ctgccacgtg gagcacccca gcctccagaa ccccatcacc gtggagtgg	529

<210> 203

<211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 203

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taaccgagag gactacgcgc gcttcgacag cgacgtggag gtgtaccggg cggtagacgc	120
gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc	180
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca cgaccttgca	240
gcggcgag	248

<210> 204  
 <211> 529  
 <212> DNA  
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<400> 204

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gctggggccg cctgcgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc	180
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca cgaccttgca	240
gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca	300
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ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac	480
ctgccacgtg gagcacccca gcctccagaa ccccatcatc gtggagtgg	529

<210> 205  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 205

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<210> 206  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 206

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gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc	180
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagctccgca cgaccttgca	240
gcggcgag	248

<210> 207

<211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 207

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taaccgagag gactacgcac gcttcgacag cgacgtggag gtgtaccggg cggtagacgc	120
gctggggccg cctgccgccc agtactggaa cagccagaag gaagtcctgg agaggaccgc	180
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<210> 208  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 208

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<210> 209  
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 <212> DNA  
 <213> Homo sapiens

<400> 209

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gctggggccg cctgccgccc agtactggaa cagccagaag gaagtcctgg agaggaccgc	180
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gcggcgag	248

<210> 210  
 <211> 248  
 <212> DNA  
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<400> 210gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta	60
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gctggggccg cctgacgccc agtactggaa tagccagaag gacatcctgg agaggaccgc	180
ggcgtcggtg gacaccgtat gcagacacaa ctaccagttg gagctccgca cgaccttgca	240
gcggcgag	248

<210> 211  
 <211> 247

<212> DNA  
<213> Homo sapiens

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gcggcga 247

<210> 212  
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<212> DNA  
<213> Homo sapiens

<400> 212  
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gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg aggggaccgc 180  
ggcggagtgt gacacggtgt gcagacacaa ctaccagttg gagctccgca cgaccttgca 240  
gcggcgag 248

<210> 213  
<211> 526  
<212> DNA  
<213> Homo sapiens

<400> 213  
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gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
ggcggagtgt gacacggtgt gcagacacaa ctaccagttg gagctccgca cgaccttgca 240  
gcggcgagtgt gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
caacctgctg gtctgtctag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360  
tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta ggaacggtga 420  
ctggaccttc cagatcctgg tgatgtgga aatgactccc cagcatgccg tctacacctg 480  
ccacgtggag caccacgcc tccagaacct catcacctg gactgg 526

<210> 214  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 214  
ggccatgtgc tacttcacca acgggacgga ggcggtgcgt tatgtgacca gatacatcta 60  
taaccgagag gactacgcac gcttcgacag cgacgtgggg gtgtatcggg cggtagacgc 120  
gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
ggcggagtgt gacacggtgt gcagacacaa ctaccagttg gagctccgca cgaccttgca 240  
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tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta ggaacggtga 420  
ctggaccttc cagatcctgg tgatgtgga aatgactccc cagcatggag acgtctacac 480  
ctgccacgtg gaggacccca gcctccagaa cccatcacc gtggagtgg 529

<210> 215  
<211> 248

<212> DNA  
<213> Homo sapiens

<400> 215

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gggcctgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcac gcttcgacag cgacgtgggg gtgtatcggg cggtagacgc 120
gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgacctgca 240
gcggcgag 248

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<210> 216  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 216

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ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcac gcttcgacag cgacgtgggg gtgtatcggg cggtagacgc 120
gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgacctgca 240
gcggcgag 248

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<210> 217  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 217

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ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca gatacatcta 60
taaccgagag gactacgcac gcttcgacag cgacgtggag gtgtaccggg cggtagacgc 120
gctggggccg cctgacgccg agtactggaa cagccagaag gaagacctgg agaggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgacctgca 240
gcggcgag 248

```

<210> 218  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 218

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gggcatgtgc tacttcacca acgggaccga gctcgtgcgg ggtgtgacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtatcggg cggtagacgc 120
gctggggccg cttgacgccg agtactggaa tagccagaag gacatcctgg aggaggaccg 180
ggcgtcggtg gacacgtat gcagacacaa ctaccagttg gagtccgca cgacctgca 240
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ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480
ctgccacgtg gagcacccca gcctccagaa ccccatcacc gtggagtgg 529

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<210> 219  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 219

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taaccgagag gactacggcg gcttcgacag cgacgtgggg gtgtatcggg cggtagcgcc 120
gctggggcgg cttgacggcg agtactggaa tagccagaag gacatcctgg aggaggaccg 180
ggcgtcgggtg gacaccgtat gcagacacaa ctaccagttg gagtccgca cgaccttgca 240
gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300
caacctgctg gtcgtctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360
tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta ggaacggtga 420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480
ctgccacgtg gagcacccca gcctccagaa ccccatcatc gtggagtgg 529

```

<210> 220  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

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<400> 220
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taaccgagag gaggacgtgc gcttcgacag cgacgtgggg gtgtatcggg cggtagcgcc 120
gcagggggcgg cctgacggcg agtactggaa cagccagaag gacatcctgg agaggaccg 180
agcggagttg gacacgggtg gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca 240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300
caacctgctg gtcgtctcgg tgacagattt ctatccagcc cagatcaaag tccggtggtt 360
tcggaatgac caggaggaga cagctggcgt tgtgtccacc ccccttatta ggaacggtga 420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480
ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg 529

```

<210> 221  
 <211> 204  
 <212> DNA  
 <213> Homo sapiens

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<400> 221
gccatgtgct acttcaccaa cgggacggag gcggtgcgt atgtgaccag atacatctat 60
aaccgagagg aggacgtgcg cttcgacagc gacgtggggg tgtatcgggc ggtgaccccg 120
cagggggcggc ctgacggcga gtactggaac agccagaagg acatcctgga gaggaccgga 180
cgggagttgg acacgggtg caga 204

```

<210> 222  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

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<400> 222
ggccatgtgc tacttcacca atgggacgga ggcgtgcgt tatgtgacca gatacatcta 60
taaccgagag gaggacgtgc gcttcgacag cgacgtgggg gtgtatcggg cggtagcgcc 120
gcagggggcgg cctgacggcg agtactggaa cagccagaag gacatcctgg agaggaccg 180
agcggagttg gacacgggtg gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca 240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300
caacctgctg gtcgtctcgg tgacagattt ctatccagcc cagatcaaag tccggtggtt 360
tcggaatgac caggaagaga cagctggcgt tgtgtccacc ccccttatta ggaacggtga 420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480
ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg 529

```

<210> 223  
 <211> 529  
 <212> DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 223

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taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc	120
gcaggggccc cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggacccg	180
ggcggagtgt gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca	240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca	300
caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag tccggtggtt	360
tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta ggaatggtga	420
ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac	480
ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg	529

&lt;210&gt; 224

&lt;211&gt; 529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 224

gggcatgtgc tacttcacca acgggacgga ggcggtgcgt cttgtaacca gacacatcta	60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc	120
gcaggggccc cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggacccg	180
ggcggagtgt gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca	240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca	300
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tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta ggaatggtga	420
ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac	480
ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg	529

&lt;210&gt; 225

&lt;211&gt; 529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 225

gggcatgtgc tacttcacca acgggacgga ggcggtgcgt cttgtaacca gacacatcta	60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagacgc	120
gcaggggccc cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggacccg	180
ggcggagtgt gacacggtgt gcagacacaa ctacgaggtg gggtagccgc ggatcctgca	240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca	300
caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag tccagtgtgt	360
tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta ggaatggtga	420
ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac	480
ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg	529

&lt;210&gt; 226

&lt;211&gt; 289

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 226

gggcatgtgc tacttcacca acgggacgga ggcggtgcgt cttgtaacca gacacatcta	60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc	120
gcaggggccc cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggacccg	180
ggcggagtgt gacacggtgt gcagacacaa ctacgaggtg gggtagccgc ggatcctgca	240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggcc	289

<210> 227  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<400> 227  
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 taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagacgc 120  
 gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
 ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgc ggatcctgca 240  
 gaggagagtg gagccacag tgaccatctc ccatccagg acagaggcc 289

<210> 228  
 <211> 173  
 <212> DNA  
 <213> Homo sapiens

<400> 228  
 ggacggagcg cgtgcgtctt gtaaccagat acatctataa ccgagaggag tacgcgcgct 60  
 tcgacagcga cgtgggggtg taccgggcgg tgacgccga gggcggcct gtcgccgagt 120  
 actggaacag ccagaaggaa gtcttgaga ggaccgggc ggagttggac acg 173

<210> 229  
 <211> 176  
 <212> DNA  
 <213> Homo sapiens

<400> 229  
 ggacggagcg cgtgcgtctt gtaaccagat acatctataa ccgagaggag tacgcgcgct 60  
 tcgacagcga cgtgggggtg taccgggcgg tgacgccga gggcggcct gttgccgagt 120  
 actggaacag ccagaaggaa gtcttgaga ggaccgggc ggcggtggac aggggtg 176

<210> 230  
 <211> 236  
 <212> DNA  
 <213> Homo sapiens

<400> 230gggcatgtgc tacttcacca acgggacgga ggcggtgcgt cttgtaacca gacacatcta 60  
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 gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
 ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgc ggatcc 236

<210> 231  
 <211> 236  
 <212> DNA  
 <213> Homo sapiens

<400> 231  
 gggcatgtgc tacttcacca acgggacgga ggcggtgcgt cttgtaacca gacacatcta 60  
 taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120  
 gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg aggggaccgc 180  
 ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgtccgcg ggatct 236

<210> 232

<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 232  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gatacatcta 60  
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagacgc 120  
gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180  
ggcggagtgt gacacggtgt gcagacacaa ctacgaggtg gggtagccgc ggatcctgca 240  
gaggagagtgt gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
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tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta ggaatgggtga 420  
ctggactttc cagatcctgg tgatgtgga aatgactccc cagcgtggag atgtctacac 480  
ctgccacgtg gaggacccca gcctccagag ccccatcacc gtggagtgg 529

<210> 233  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 233  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120  
gcagggggcgg cctagcgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180  
ggcggagtgt gacacggtgt gcagacacaa ctacgaggtg gcgttccgc ggatcctgca 240  
gaggagag 248

<210> 234  
<211> 244  
<212> DNA  
<213> Homo sapiens

<400> 234  
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taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120  
gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180  
ggcggagtgt gacacggtgt gcagacacaa ctacgaggtg gcgttccgc ggatcctgca 240  
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<212> DNA  
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gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180  
ggcggagtgt gacacggtgt gcagacacaa ctacgaggtg gcgttccgc ggatcctgca 240  
gaggagag 248

<210> 236  
<211> 529  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 236

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gggcatgtgc tacttcacca acgggacgga ggcgctgcgt cttgtaacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagacgc 120
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ctgccacgtg gagcacccca gcctccagag ccccatcacc gtggagtgg 529

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&lt;210&gt; 237

&lt;211&gt; 234

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 237

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gggcatgtgc tacttcacca acgggacgga ggcgctgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120
gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggat 234

```

&lt;210&gt; 238

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 238

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gggcatgtgc tacttcacca acgggacgga ggcgctgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120
gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcctgca 240
gaggagag 248

```

&lt;210&gt; 239

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 239

```

gggcatgtgc tacttcacca acgggacgga ggcgctgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120
gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgc ggatcctgca 240
gaggagag 248

```

&lt;210&gt; 240

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<400> 240gggcatgtgc tacttcacca acgggacgga ggcgctgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120
gcagggggcgg cctgatgccg agaactggaa cagccagaag gaagtcctgg aggggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcctgca 240
gaggagag 248

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<210> 241  
<211> 229  
<212> DNA  
<213> Homo sapiens

<400> 241  
gggcatgtgc tacttcacca acgggacgga ggcggtgcgt cttgtaacca gacacatcta 60  
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gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agggggcccg 180  
ggcggagtgt gacacggtgt gcagacacaa ctacgaggtg gggtagccgc 229

<210> 242  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 242  
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gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
ggcggagtgt gacacggtgt gcagacacaa ctacgaggtg gcgttcgcgc ggatcttgca 240  
gaggag 246

<210> 243  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 243  
gggcatgtgc tacttcacca acgggacgga ggcggtgcgt cttgtgacca gatacatcta 60  
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gctggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggaccgc 180  
ggcggagtgt gacacggtgt gcagacacaa ctacgaggtg gcgttcgcgc ggatcttgca 240  
gaggagag 248

<210> 244  
<211> 229  
<212> DNA  
<213> Homo sapiens

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gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggaccgc 180  
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## SEQUENCE LISTING DR

&lt;110&gt; CANON KABUSHIKI KAISHA

&lt;120&gt; Probe set and method for identifying HLA allele

&lt;130&gt; g10003828DR

&lt;150&gt; JP2003-430558

&lt;151&gt; 2003-12-25

&lt;160&gt; 827

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

&lt;211&gt; 370&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 29

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gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

<210> 40  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 40  
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gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

<210> 41  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 41  
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gtgctgagct cccactggc ttggctggg gacaccgac cacgtttctt ggagcaggtt 120  
aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcctgga cagatacttc 180  
tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct ggagcagaag 300  
cggggccggg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacagtg 360  
cagcggcgag 370

<210> 42  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 42  
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ggttcctgga cagatacttc tatcaccaag aagagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagaag cggggccggg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 43  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 43  
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gtgtctgagct cccactggc ttggctggg gacacccgac cacgtttctt ggagcaggtt 120  
aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcctgga cagatacttc 180  
taccaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
gagctggggc ggctgatgc cgagtactgg aacagccaga aggacatcct ggaagacgag 300  
cgggccgagg tggacaccta ctgcagacac aactacgggg ttgtggagag cttcacagtg 360  
cagcggcgag 370

<210> 44  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 44  
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acggagcggg tgcggttctt ggacagatac ttctatcacc aagaggagta cgtgcgttc 120  
gacagcgacg tgggggagta cggggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
tggaacagcc agaaggacct cctggagcag aggcggggcgg aggtggacac ctactgcaga 240  
cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 45  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 45  
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ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

<210> 46  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 46  
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gtgtctgagct cccactggc ttggctggg gacacccgac cacgtttctt ggagcaggtt 120  
aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcctgga cagatacttc 180  
taccaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
gagctggggc ggctgatgc cgagtactgg aacagccaga aggacctcct ggagcagagg 300  
cgggccgagg tggacaccta ctgcagacac aactacgggg ttgtggagag cttcacagtg 360  
cagcggcgag 370

<210> 47  
<211> 282  
<212> DNA  
<213> Homo sapiens

<400> 47

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 acggagcggg tgcggttctt ggacagatac ttctatcacc aagaggagta cgtgcgttc 120  
 gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggccgctag cgccgagtac 180  
 tggaacagcc agaaggacct cctggagcag aggcggggccg cggaggacac ctactgcaga 240  
 cacaactacg ggggttggtga gagcttcaca gtgcagcggc ga 282

<210> 48  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 48  
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 ggttcctgga cagatacttc tatcaccaag aggagtacgt gcggttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagagg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 49  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 49  
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 ggttcctgga cagatacttc tatcaccaag aggagtacgt gcggttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagagg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 50  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

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 ggttcctgga cagatacttc tatcaccaag aggagtacgt gcggttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagagg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacaggtg cagcggcgag 270

<210> 51  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 51  
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 acggagcggg tgcggttctt ggacagatac ttctatcacc aagaggagtc cgtgcgttc 120  
 gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggccgctga tgccgagtac 180  
 tggaacagcc agaaggacct cctggagcag aggcggggccg aggtggacac ctactgcaga 240  
 cacaactacg ggggttggtga gagcttcaca gtgcagcggc gag 283

<210> 52  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens



&lt;400&gt; 52

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acggagcggg tgcggttct ggacagatac ttctatcacc aagaggagta cgtgcgttc	120
gacagcgacg tgggggagta ccgggcggg acggagctgg ggcggcctga tgccgagta	180
tggaacagcc agaaggacct cctggagcag aggcgggccc aggtggacac ctactgcaga	240
cacaactacg ggggtggtga gagcttcaca gtgcagcggc ga	282

&lt;210&gt; 53

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 53

cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc	60
ggttcttgga cagatacttc tatcaccaag aggagtacgt gcgttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga	180
aggacctctt ggagcagaga cgggccgagg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcgg	266

&lt;210&gt; 54

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 54

tttcttgag caggttaaac atgagtgtca tttcttcaac gggacggagc ggggtcggtt	60
cctggacaga tacttctatc accaagagga gtacgtgcgc ttcgacagcg acgtggggga	120
gtaccgggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca gccagaagga	180
cctcctggag cagaggcggg ccgcggtgga cacctactgc agacacaact acggggttgg	240
tgagagcttc acagtgcagc ggcgag	266

&lt;210&gt; 55

&lt;211&gt; 225

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 55

tgagtgtcat ttcttcaacg ggacggagcg ggtgcggttc ctggacagat acttctatca	60
ccaagaggag tacgtgcgct tcgacagcga cgtgggggag taccgggcgg tgacggagct	120
ggggcggcct agcgcgagct actggaacag ccagaaggac ctcttgagc agaagcgggc	180
cgcggtggac acctactgca gacacaacta cggggttggg gagag	225

&lt;210&gt; 56

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 56

tttcttgag caggttaaac atgagtgtca tttcttcaac gggacggagc ggggtcggtt	60
cctggacaga tacttctatc accaagagga gtacgtgcgc ttcgacagcg acgtggggga	120
gtaccgggcg gtgacggagc tggggcggcc tagcgcgag tactggaaca gccagaagga	180
cctcctggag cagaggcggg ccgcggtgga cacctactgc agacacaact acggggttgt	240
ggagagcttc acagtgcagc ggcgag	266

&lt;210&gt; 57

<211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 57  
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 gtgtgagct cccactggc ttgggtggg gacacccgac cacgtttctt ggagcaggtt 120  
 aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcttga cagatacttc 180  
 tatccaag aggagtacgt gcgttctgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggcctagcgc cgagtactgg aacagccaga aggacctctt ggaacagagg 300  
 cgggccgagg tggacaccta ctgcagacac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 58  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
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 ctggacagat acttctatca ccaagaggag tacgtgcgt tcgacagcga cgtgggggag 120  
 taccgggcgg tgacggagct ggggcggcct agcgcgagct actggaacag ccagaaggac 180  
 atcttgaag acaggcgggc cctggtggac acctactgca gacacaacta cggggttgtg 240  
 gagagcttca cagtgcagcg g 261

<210> 59  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<400> 59  
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 caccaagagg agtacgtgcg cttcgacagc gacgtggggg agtaccgggc ggtgacggag 120  
 ctggggcggc ctgatgccga gtactggaac agccagaagg acctcttga gcagaagcgg 180  
 gccgcggtgg acacctactg cagacacaac tacggggttg tggagagctt caca 234

<210> 60  
 <211> 225  
 <212> DNA  
 <213> Homo sapiens

<400> 60tgagtgtcat ttcttcaacg ggacggagcg ggtgcggttc ctggacagat acttctatca 60  
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 ggggcggcct gatgccgagt actggaacag ccagaaggac atcttgaag acgagcgggc 180  
 cgcggtggac acctactgca gacacaacta cggggttgg gagag 225

<210> 61  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<400> 61  
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 ggttcttga cagatacttc tatccaag aggagtacgt gcgttctgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggctgatga ggagtactgg aacagccaga 180  
 aggacttctt ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag 250

<210> 62  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 62  
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 accaagagga gtacgtgcgc ttcgacagcg acgtggggga gtaccgggcg gtgacggagc 120  
 tggggcggcc tgatgccag tactggaaca gccagaagga cctcctggag cagaagcggg 180  
 ccgcggtgga cacctactgc agacacaact acggggttgg tg 222

<210> 63  
 <211> 221  
 <212> DNA  
 <213> Homo sapiens

<400> 63  
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 accaagagga gtacgtgcgc ttcgacagcg acgtggggga gtaccgggcg gtgacggagc 120  
 tggggcggcc tagcggcg tactggaaca gccagaagga cctcctggag cagaggcggg 180  
 ccgaggtgga cacctactgc agacacaact acggggttgg t 221

<210> 64  
 <211> 238  
 <212> DNA  
 <213> Homo sapiens

<400> 64  
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 accaagagga gtacgtgcgc ttcgacagcg acgtggggga gtaccgggcg gtgacggagc 120  
 tggggcggcc tgatgccag tactggaaca gccagaagga catcctggaa gacaggcggg 180  
 ccctggtgga cacctactgc agacacaact acggggttgt ggagagcttc acagtgc 238

<210> 65  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 65  
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 cctggacaga tacttctatc accaagagga gtccgtgcgc ttcgacagcg acgtggggga 120  
 gtaccgggcg gtgacggagc tggggcggcc tgatgccag tactggaaca gccagaagga 180  
 cctcctggag cagaggcggg ccgcggtgga cacctactgc agacacaact acggggttgg 240  
 tgagagcttc acagtgcagc ggcgag 266

<210> 66  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 66  
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 accaagagga gtccgtgcgc ttcgacagcg acgtggggga gtaccgggcg gtgacggagc 120  
 tggggcggcc tgatgccag tactggaaca gccagaagga cctcctggag cagaggcggg 180  
 ccgaggtgga cacctactgc agacacaact acggggttgg tg 222

<210> 67  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
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 agatacttct atcaccaaga ggagtcggtg cgcttcgaca gcgacgtggg ggagtaccgg 120  
 gcggtgacgg agctggggcg gcctgatgcc gactactgga acagccagaa ggacctcctg 180  
 gagcagaagc gggcccggtt ggacacctac tgcagacaca actacggggt tggtagagagc 240  
 ttcacagtgc 249

<210> 68  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
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 agatacttct atcaccaaga ggagtcggtg cgcttcgaca gcgacgtggg ggagtaccgg 120  
 gcggtgacgg agctggggcg gcctgatgcc gactactgga acagccagaa ggacctcctg 180  
 gagcagaagc ggggcccgggtt ggacaactac tgcagacaca actacggggt tggtagagagc 240  
 ttcaca 246

<210> 69  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 69  
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 gttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcttagcgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcggagg cgggcccggg tggacaccta ctgcagacac aactacgggg 240  
 ttgtgagag attcacagtgc cagcggcgag 270

<210> 70  
 <211> 270  
 <212> DNA  
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<400> 70cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
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 aggacctcct ggagcggagg cgggcccggg tggacaccta ctgcagacac aactacgggg 240  
 ttgtgagag cttcacagtgc cagcggcgag 270

<210> 71  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

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 gacagatact tctatcacca agaggagtac gtgcgcttcg acagcgacgt gggggagtac 120  
 cgggcggtga cggagctggg gcggcctgat gccagtagt ggaacagcca gaaggacttc 180  
 ctggaagaca ggcggggcct ggtggacacc tactgcagac acaactacgg ggttgtggag 240  
 ag 242

<210> 72  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 72  
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gggagtaccg ggcggtgacg gagctggggc ggcctgatac cgagtactgg aacagccaga 180  
aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtg 246

<210> 73  
<211> 260  
<212> DNA  
<213> Homo sapiens

<400> 73  
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ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
ctgtggagag cttcacagtg 260

<210> 74  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 74  
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ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagttccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 75  
<211> 270  
<212> DNA  
<213> Homo sapiens

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gggagtaccg ggcggtgatg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 76  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 76  
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ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggtggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 77  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 77  
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 ggttctctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcgcgag 270

<210> 78  
 <211> 240  
 <212> DNA  
 <213> Homo sapiens

<400> 78  
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 gacagatact tctatcacca agaggagtac gtgcgcttcg acagcgacgt gggggagtac 120  
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 <212> DNA  
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&lt;211&gt; 260

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 97

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&lt;210&gt; 98

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 98

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&lt;210&gt; 99

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 99

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&lt;210&gt; 100

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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270

&lt;210&gt; 116

&lt;211&gt; 254

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 116

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&lt;210&gt; 117

&lt;211&gt; 260

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

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&lt;210&gt; 118

&lt;211&gt; 242

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

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&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

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&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<212> DNA  
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&lt;210&gt; 126

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 126

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&lt;210&gt; 127

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

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&lt;210&gt; 128

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 128

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&lt;210&gt; 129

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 129

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&lt;210&gt; 130

&lt;211&gt; 370

&lt;212&gt; DNA



<213> Homo sapiens

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<211> 370

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270

&lt;210&gt; 135

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 135

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&lt;210&gt; 136

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 136

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&lt;210&gt; 137

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 137

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&lt;210&gt; 138

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 138

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&lt;210&gt; 139

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 139

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tggaacagcc agaaggactt cctggaagac aggcgggccc cgggtggacac ctactgcaga    240
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&lt;210&gt; 140

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 141

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 141

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&lt;210&gt; 142

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 142

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&lt;210&gt; 143

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 143

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cgggcgggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacctc 180  
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&lt;210&gt; 174

&lt;211&gt; 259

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 174

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&lt;210&gt; 175

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 175

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&lt;210&gt; 176

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 176

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&lt;210&gt; 177

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 177

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 gacagcgacg tgggggagtt cggggcggtg acggagctgg ggcggcctga tgccgagtac 180  
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 <211> 266  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 197

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 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacatcct ggaagacgag cgcgccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcgg 266

&lt;210&gt; 198

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 198

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 gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctag cgccgagtac 180  
 tggaaacagcc agaaggacat cctggaagac aagcggggccg cgggtggacac ctactgcaga 240  
 cacaactacg ggggttggtga gagcttcacg gtgcagcggc gag 283

&lt;210&gt; 199

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 199

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 cgggcgggtga cggagctggg gcggcctagc gccgagtact ggaacagcca gaaggacatc 180  
 ctggaagaca agcggggccg ggtggacacc tactgcagac acaactacgg ggttggtgag 240  
 agcttcacag tgcagcggcg ag 262

&lt;210&gt; 200

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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 gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctag cgccgagtac 180  
 tggaaacagcc agaaggacat cctggaagac gagcggggccg cgggtggacac ctactgcaga 240  
 cacaactacg ggggttggtga gagcttcaca gtgcagcggc gag 283

&lt;210&gt; 201

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 201

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 ttcttgga gatacttcca taaccaggag gagaacgtgc gcttcgacag cgactgggg 120  
 gagttccggg cggtagcggg gctggggcgg cctgatgccg agtactggaa cagccagaag 180  
 gacttcttgg aagacaggcg ggccgcgggtg gacacctact gcagacacaa ctacgggggtt 240  
 ggtgagagct tcacagtga gcggcgag 268

&lt;210&gt; 202

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<212> DNA  
<213> Homo sapiens

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gaggagaacg tgcgttcga cagcgacgtg ggggagttcc gggcgggtgac ggagctgggg 120  
cggcctgatg ccgagtactg gaacagccag aaggacatcc tggaagacag gcgggccgcg 180  
gtggacacct actgcagaca caactacggg gttgtggaga gcttcaca 228

<210> 203  
<211> 270  
<212> DNA  
<213> Homo sapiens

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gggagtaccg ggcgggtgac gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
aggacttctt ggaagacagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 204  
<211> 268  
<212> DNA  
<213> Homo sapiens

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gggagtaccg ggcgggtgac gagctggggc ggctgacgc tgagtactgg aacagccaga 180  
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ttggtgagag cttcacagtg cagcggcg 268

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<212> DNA  
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taccgggcgg tgacggagct gggcgggcct gatgccgagt actggaacag ccagaaggac 180  
atcttggaag acgagcgggc cgcggtggac acctactgca gacacaacta cggggttgtg 240  
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<212> DNA  
<213> Homo sapiens

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gttcggggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca gccagaagga 180  
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ggagagcttc acagtg 256



<210> 207  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

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 gggagtccg ggcgggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
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 gggagtccg ggcgggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
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 <212> DNA  
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 ttgtgagag cttcacagtg ca 262

<210> 211  
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 <212> DNA  
 <213> Homo sapiens

<400> 211  
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 ggagctgggg cggcctgatg ccgagtactg gaacagccag aaggacttcc tggagacag 180  
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<210> 212  
<211> 270  
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gggagtccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
aggacttctt ggaagacagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 213  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 213  
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gttccgggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca gccagaagga 180  
catcctggaa gacgagcggg ccgcggtgga cacctactgc agacacaact acggggttgt 240  
ggagagcttc acagtgcagc ggcgag 266

<210> 214  
<211> 247  
<212> DNA  
<213> Homo sapiens

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ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacatcct 180  
ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg ttgatgagag 240  
cttcaca 247

<210> 215  
<211> 283  
<212> DNA  
<213> Homo sapiens

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acggagcggg tgcggttctt ggacagatac ttctataacc aagaggagta cgtgcgttc 120  
gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga tgccgagtac 180  
tggaacagcc agaaggacat cctggaagac gagcggggcg cgggtggacac ctactgcaga 240  
cacaactacg gggttgtgga gagcttcaca gtgcagcgc gag 283

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aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
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<210> 217  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

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 gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
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 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 218  
 <211> 266  
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 <213> Homo sapiens

<400> 218  
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 gggagttccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcgg 266

<210> 219  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 219  
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 gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctag cgccgagtac 180  
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 cacaactacg gggttggtga gagcttcaca gtgcagcggc gag 283

<210> 220  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

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 tgggggagtt ccgggcgggtg acggagctgg ggcggcctga tgccgagtac tggaacagcc 180  
 agaaggacat cctggaagac gagcgggccc cggtggacac ctactgcaga cacaactacg 240  
 gggttgtgga gagcttcaca gtgcagcggc gag 273

<210> 221  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<400> 221

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 gagttccggg cggtagacgga gctggggcgg cctgatgccg agtactggaa cagccagaag 180  
 gacatcctgg aagacgagcg ggccgcgggtg gacacctact gcagacacaa ctacgggggt 240  
 ggtgagagct tcacggtgca gcggc 265

<210> 222  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<400> 222  
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 gagttccggg cggtagacgga gctggggcgg cctgatgccg agtactggaa cagccagaag 180  
 gacttcttgg aagacgagcg ggccgcgggtg gacacctact gcagacacaa ctacgggggt 240  
 gtggagagct tcacagtgca gcggc 265

<210> 223  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

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 gggagtccg ggccggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
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 ttggtgaga 249

<210> 224  
 <211> 270  
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 aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
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<210> 226  
 <211> 248  
 <212> DNA

<213> Homo sapiens

<400> 226

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cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca gaaggacatc	180
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<210> 227

<211> 270

<212> DNA

<213> Homo sapiens

<400> 227

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aggacctcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg	240
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<210> 228

<211> 253

<212> DNA

<213> Homo sapiens

<400> 228

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gttcggggcg gtgacggagc tggggcgcc tagcgcgag tactggaaca gccagaagga	180
catcctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact acggggttgg	240
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<210> 229

<211> 269

<212> DNA

<213> Homo sapiens

<400> 229

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	gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga	180
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<211> 246  
<212> DNA  
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<210> 233  
<211> 266  
<212> DNA  
<213> Homo sapiens

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<210> 235  
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<210> 236  
 <211> 245  
 <212> DNA  
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&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 275

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&lt;210&gt; 276

&lt;211&gt; 241

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 276

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&lt;210&gt; 277

&lt;211&gt; 241

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 277

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&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 278

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&lt;211&gt; 270

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270

&lt;210&gt; 289

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 289

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&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 291

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 291

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&lt;210&gt; 292

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 292

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&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 310

&lt;211&gt; 255

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&lt;210&gt; 311

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 312

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<400> 322



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<213> Homo sapiens

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gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga	180
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<211> 270

<212> DNA

<213> Homo sapiens

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<211> 283

<212> DNA

<213> Homo sapiens

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gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctgt cgcgagtc	180
tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa ttactgcaga	240
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<211> 370

<212> DNA

<213> Homo sapiens

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<212> DNA

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&lt;210&gt; 342

&lt;211&gt; 370

&lt;212&gt; DNA

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&lt;400&gt; 342

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&lt;210&gt; 343

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 343

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&lt;210&gt; 344

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 344

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&lt;210&gt; 345

&lt;211&gt; 270

&lt;212&gt; DNA

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 gggagtaccg ggcggtgacg gagctggggc ggctgtcgc cgagtcttg aacagccaga 180  
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 gacagcgacg tgggggagta ccgggcgggt acggagctgg ggcggcctga tgccgagtag 180  
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gacagcgacg tgggggagta cggggcgggtg agggagctgg ggcggcctga tgccgagtac 180  
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<210> 356  
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<213> Homo sapiens

<400> 356  
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ttggtgagag cttcacagtg cagcggcgag 270

<210> 357  
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<212> DNA  
<213> Homo sapiens

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<211> 270  
<212> DNA



<213> Homo sapiens

<400> 360

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gggagtaccg ggcggtgagg gagctggggc ggctgtctgc ggagcactgg aacagccaga	180
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

<210> 361

<211> 270

<212> DNA

<213> Homo sapiens

<400> 361

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gggagtaccg ggcggtgagg gagctggggc ggctgtatgc cgagtactgg aacagccaga	180
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg	240
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<210> 362

<211> 283

<212> DNA

<213> Homo sapiens

<400> 362

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gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctgt cgccgagtc	180
tggaacagcc agaaggacct cctggagcag aagcggggcc aggtggacaa ttactgcaga	240
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<210> 363

<211> 270

<212> DNA

<213> Homo sapiens

<400> 363

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gggagtaccg ggcggtgacg gagctggggc ggctgtctgc cgagtcctgg aacagccaga	180
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacggcg	240
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<210> 364

<211> 246

<212> DNA

<213> Homo sapiens

<400> 364

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gggagtaccg ggcggtgacg gagctggggc ggctgtctgc cgagtcctgg aacagccaga	180
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<212> DNA  
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gtaccgggcg gtgacggagc tggggcgcc tgtcgccgag tcctggaaca gccagaagga 180  
cctcctggag cagaagcggg gccgggtgga caattactgc agacacaact acggggttg 240  
tgagagcttc aca 253

<210> 366  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 366  
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aagtgtgagt gtcatttct caatgggacg gagcgagtgt ggaacctgat cagatacatc 180  
tataaccaag aggagtacgc gcgtacaac agtgacctgg gggagtacca ggcggtgacg 240  
gagctggggc ggctgacgc tgagtactgg aacagccaga aggacctct ggagcggagg 300  
cgggccgagg tggacaccta ctgcagatac aactacgggg ttgtggagag cttcacagt 360  
cagcggcgag 370

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<211> 220  
<212> DNA  
<213> Homo sapiens

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aacagccaga aggacctct ggagcggagg cgggccgagg tgggcaccta ctgcagatac 180  
aactacgggg ttgtggagag cttcacagt cagcggcgag 220

<210> 368  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 368  
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aacagtaccc tgggggagta ccaggcggtg acggagctgg ggcggcctga cgctgagtac 180  
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tacaactacg gggttgtgga gagcttcaca gtgcagcgc gag 283

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<212> DNA  
<213> Homo sapiens

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aagtgtgagt gtcatttct caatgggacg gagcgagtgt ggaacctgat cagatacatc 180  
tataaccaag aggagtacgc gcgtacaac agtgacctgg gggagtacca ggcggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacctcct ggagcggagg 300  
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 cagcggcgag 370

<210> 370  
 <211> 270  
 <212> DNA  
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<210> 371  
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 <212> DNA  
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<400> 371  
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<210> 372  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

<400> 372  
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 caggcggtga cggagctggg gcggcctgac gctgagtact ggaacagcca gaaggacctc 180  
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<210> 373  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 373  
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 aggacctcct ggagcggagg cgggccgagg tggacaccta ctgcagatac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 374  
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 <212> DNA  
 <213> Homo sapiens

<400> 374  
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aggagtacgc gcgtacaac agtgacctgg gggagtacca ggcggtgacg gagctggggc 180  
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 <212> DNA  
 <213> Homo sapiens

<400> 375  
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 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 376  
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 gggagtaccg ggcggtgacg gagctggggc ggcttgacgc tgagtactgg aacagccaga 180  
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 ttggtgagag cttcaca 257

<210> 377  
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 <212> DNA  
 <213> Homo sapiens

<400> 377  
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 gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctga cgtgagtac 180  
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<210> 378  
 <211> 250  
 <212> DNA  
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<400> 378  
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 agcttcacag 250

<210> 379  
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 <212> DNA  
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tggaacagcc agaaggactt cctggaagac aggcgggccc tggaggacac ctactgcaga	240
cacaactacg gggttgggtga gagcttcaca gtgcagcggc gag	283

&lt;210&gt; 380

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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ggggagtacc ggcgggtgac ggagctgggg cggcctgacg ctgagtactg gaacagccag	180
aaggacttcc tggaagacag gcgcgcgcg gtggacacct actgcagaca caactacggg	240
gttggtgaga gcttcacagt gcagcgg	267

&lt;210&gt; 381

&lt;211&gt; 269

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 381

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aggacatcct ggagcaggcg cgggccgcgg tggacacct ctgcagacac aactacgggg	240
ctgtggagag cttcacagtg cagcggcga	269

&lt;210&gt; 382

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 382

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gggagtaccg ggcgggtgac gagctggggc ggctgacgc tgagtactgg aacagccaga	180
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&lt;210&gt; 383

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 383

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gggagtaccg ggcgggtgac gagctggggc ggctgacgc tgagtactgg aacagccaga	180
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ttggtg	246

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<212> DNA  
<213> Homo sapiens

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<211> 270  
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aagtatgagt gtcatttctt caacgggacg gagcgggtgc ggttcttgca cagaggcatc 180  
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gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacatcct ggagcaggcg 300  
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cagcggcgag 370

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catcctggag caggcgcggg ccgcggtgga cacctactgc agacacaact acgggggttg 240  
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<210> 389  
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<210> 392  
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<400> 392  
gcggttgctg gaaagat 17

<210> 393  
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<212> DNA  
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<400> 393  
ctataaccaa gaggagtc 18

<210> 394  
<211> 15  
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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 136

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&lt;400&gt; 143

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&lt;210&gt; 144

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 144

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&lt;210&gt; 145

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 145

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813

&lt;210&gt; 146

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&lt;213&gt; Homo sapiens

&lt;400&gt; 146

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&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 147

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&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 148

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&lt;210&gt; 152

&lt;211&gt; 813

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&lt;213&gt; Homo sapiens

&lt;400&gt; 152

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&lt;211&gt; 813

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&lt;213&gt; Homo sapiens

&lt;400&gt; 153

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